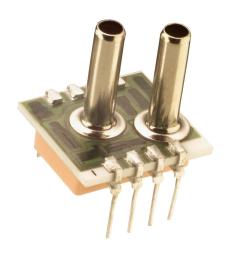
1210型1PSI压力传感器





- PC板封装压力传感器
- 电流激励
- 0~100mV输出
- 表压和差压方式
- 温度补偿功能

产品说明

0 ~ 1

1210型低压传感器是经温度补偿的硅压阻式压力传感器,采用双列直插封装结构,适用要求成本低,性能优越,长期稳定性好的应用领域。

通过激光蚀刻的电阻实现了0~50 的温度补偿,还配有一个激光修正的电阻用于调节差动放大器的增益使其具有良好的互换性,其互换性误差为 \pm 1%。

1210型也有0~100PSI的量程产品。用电流调节电阻替换增益调节电阻来进行温度补偿的传感器,请参见1220型产品。

| 特点 | | | | 应用 | | | | | |
|------|--|-------|---|-------------------------|--|--|--|--|--|
| • | 双列直插封装 ±0.3%非线性 ±1%互换性(须外接增益 固态结构,性能可靠 0~50 温度补偿 | 调节电阻) | | 气体流量检测 过程控制 工厂自动化 | | | | | |
| 标准量程 | | | | | | | | | |
| | 量程 | psig | ŗ | psid | | | | | |





性能参数

供电电流:1.5 mA,参考温度:25 (除非另有说明)

压力范围0~1PSI

| 参数 | 最小值 | 典型值 | 最大值 | 单位 | 备注 | | | |
|--------------|-----------------|-------|------|--------|----|--|--|--|
| 满量程输出 | 65 | 100 | 150 | mV | 1 | | | |
| 零点输出 | -2 | | 2 | mV | | | | |
| 非线性 | -0.3 | ±0.2 | 0.3 | %Span | 2 | | | |
| 迟滞 | -0.05 | ±0.01 | 0.05 | %Span | | | | |
| 输入输出电阻 | 1800 | | 4500 | Ω | | | | |
| 量程温度误差 | -1.0 | ±0.5 | 1.0 | %Span | 3 | | | |
| 零点温度误差 | -1.0 | ±0.5 | 1.0 | %Span | 3 | | | |
| 零点热迟滞 | | ±0.1 | | %Span | 3 | | | |
| 供电电流 | | 1.5 | 2.0 | mA | | | | |
| 响应时间(10-90%) | | 1.0 | | mS | 4 | | | |
| 输出噪音 | | 1.0 | | μV p-p | | | | |
| 长期稳定性 | | ±0.2 | | %Span | 5 | | | |
| 过载压力 | | | 10 | psi | | | | |
| 补偿温度 | 0 | | 50 | °C | | | | |
| 工作温度 | -40 | | +125 | °C | | | | |
| 贮存温度 | -50 | | +150 | °C | | | | |
| 重量 | | | 3 | grams | | | | |
| 焊接温度 | 最高250 (5秒 |) | | | | | | |
| 介质 | 与封装材料相兼容的非腐蚀性气体 | | | | | | | |

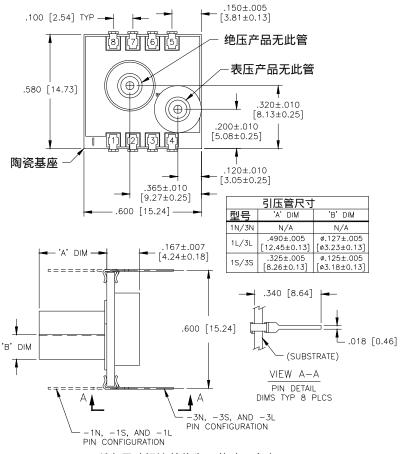
与封装材料相兼容的非腐蚀性气体 封装材料是指传感器制造中采用的玻璃,陶瓷,硅,RTV,镍,金,铝等材料。

备注

- 1. 未经放大时传感器的满量程输出。 2. 最佳拟合直线。 3. 温度范围:0 ~50 ,参照温度:+25 。
- 4. 从零到满量程压力逐渐改变。
- 5. 正常供电和常温下一年之内的长期稳定性

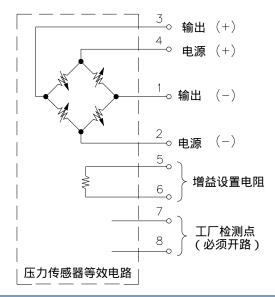


外形尺寸



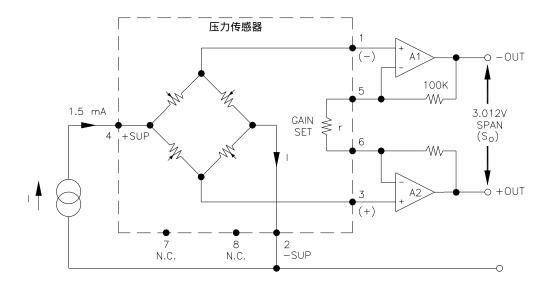
所有尺寸标注单位为:英寸(毫米)

电气连接对照表





产品应用示例



产品选型示例



联系方式

中国

北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号

金隅国际C座1002

电话: +86 010 8477 5646 传真: +86 010 5894 9029

邮箱: sales@sensorway.cn

北美总部

Measurement Specialties Inc.

1000 Lucas Way

Hampton, VA 23666, America

Tel: 1-757-766-1500 Fax: 1-757-766-4297

Sales: sales.hampton@meas-spec.com

欧洲总部

MEAS Europe

105 av.Du General Eisenhower

BP 23705,31037 Toulouse,Cedex 1,France

Tel: +33 561-194-824 Fax: +33 561-194-553

Sales: humidity.cs@meas-spec.com

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